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Cover Photo: NRCS Hydrologist Tony DeMarco prepares to measure the Upper Spencer Bench Snow Course. It was measured with 100" of snow depth with 49.4" of water content.

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General Overview

SnowPack

April started with increases to snowpacks all across the state and most locations had peak snowpack greater than normal. However, sunny days brought an early start to meltout. On May 1st, snowpack was above normal in Southeast Alaska, much of the Tanana, Kuskokwim, the lower Yukon and on the Kenai Peninsula. The upper Yukon Basin also retains much above normal snowpack. Other parts of Alaska, portions of southcentral and the northern Interior, had near normal conditions while accelerated melt put portions of the Susitna and Koyukuk Basins below normal.

In the Yukon territory the snowpack in the Yukon River headwaters remain substantial. The 10 sites above Whitehorse average 200% of normal. Several sites in the Yukon and northern British Columbia are still reporting record highs including Whitehorse Airport (57-year history) and Log Cabin (64 years). Many other locations are reading their second, third, or fourth highest May first measurements.

Southeast Alaska snowpack, likewise, is much above normal. Snowpack measurements range from 140 to 210% of normal. Moore Creek Bridge Snow Course set a new 26-year May 1st record with 70 inches of snow depth and 31.6 inches of water content. Several higher elevation sites in Southeast get measured once a year in mid-April. These sites produced some impressive snowpacks this year. Mount Ripinsky, above Haines, had 192" of snow while down in the southern panhandle, the Tyee Pass Snow Course had 240" of snow depth. Lake Grace Pass snow course, 25 miles northeast of Ketchikan, had 215" of snow depth.

Further west along the coast, snowpack in eastern Prince William Sound is near normal, before increasing to above normal in the western Sound and on the Kenai Peninsula. On the Kenai, all long-term snow measurement sites had considerably more snow than last year at this time, while most of the new higher elevation sites had less snow than last year.

Advanced melting has caused much of the Cook Inlet area to drop to near or even below normal snowpack. This trend goes north into the Susitna Valley as well. The upper Susitna and eastern Talkeetna Mountains now have below normal snowpack. The little Susitna basin, however, retains above normal stature. Further east, the Copper Valley ranges from below to much above normal.

| | | Basin Index | | | |
|---------------------------|------------|-------------------|--------------------------|--|--|
| | | Current | Last Year | | |
| Alaska Statewide Snowpack | # of Sites | Percent of Median | Percent of Median | | |
| Upper Yukon Basin | 31 | 163 | 137 | | |
| Central Yukon Basin | 4 | 80 | 156 | | |
| Tanana Basin | 20 | 146 | 221 | | |
| Koyukuk Basin | 2 | 80 | 133 | | |
| Kuskokwim Basin | 0 | _ | _ | | |
| Copper Basin | 10 | 128 | 129 | | |
| Matanuska-Susitna Basin | 14 | 100 | 153 | | |
| Northern Cook Inlet | 7 | 94 | 55 | | |
| Kenai Peninsula | 19 | 128 | 23 | | |
| Western Gulf of Alaska | 5 | 124 | 49 | | |
| Southeast Alaska | 6 | 175 | 130 | | |

General Overview

SnowPack—continued

Much of the Tanana basin still has above normal snowpack, but many lower areas have already melted out. The middle Tanana, near Delta Junction is reporting below normal snowpack, while the lower basin, Fairbanks and the upper basin, above Tok are reporting above normal snowpacks.

In the west, the Kuskokwim and the lower Yukon both have above normal snowpacks while to the north, the Koyukuk is mottled with near normal and below normal snowpack. The Central Yukon likewise is variable, but most of the above normal snowpack is on the southern part and the north part, including the Yukon Flats is below normal.

Snow measurement sites on the Northslope, along the Dalton Highway, indicate below normal snow-pack.

Precipitation

April started with a big storm system which dropped copious precipitation on much of Alaska. In fact, this was the only major precipitation event for most of Alaska in April. Most areas experienced a dearth of rain or snow for the rest of the month. Whether a basin had above or below amounts of monthly precipitation largely depends on how hard this early April storm hit it. Southeast, however, was hit in April by several moderate storm systems.

At the end of the month, Southwest Alaska, the southern half of the Interior, and the northern portion of Southeast Alaska had above average monthly precipitation totals. Southcentral Alaska and the Arctic had below average April precipitation. The Copper Valley, south Southcentral and the northern Interior had near average April showers.

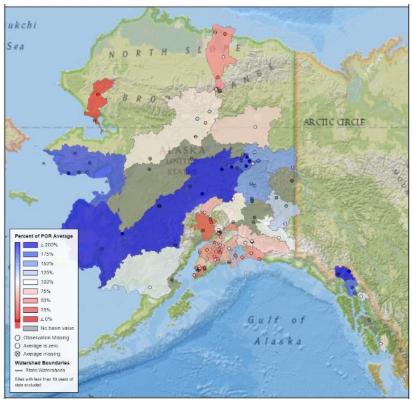
Temperature

It was the coldest of Aprils, it was the warmest of Aprils, it was a season of freezing, it was a season of rapid melting (apologies to Charles Dickens). April started out with a cold snap that set new record colds. Then, by mid-month, like a phoenix out of frozen ashes, temperatures rose to new heights and set new record highs. In the end, monthly average temperatures seem blasé compared to the journey to get to them. Juneau, Cordova, Homer, Anchorage, Gulkana, and Bettles were all within a degree Fahrenheit of monthly normal. Bethel, Nome and Utqiagʻvik were 3, 4 and 7°F above normal for the month, while Fairbanks was 3°F below normal for the month.

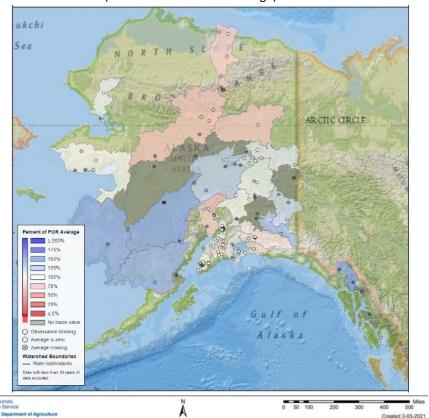
Alaska Statewide Precipitation Maps

Monthly Precipitation for April, 2021

(% of Period of Record Average)

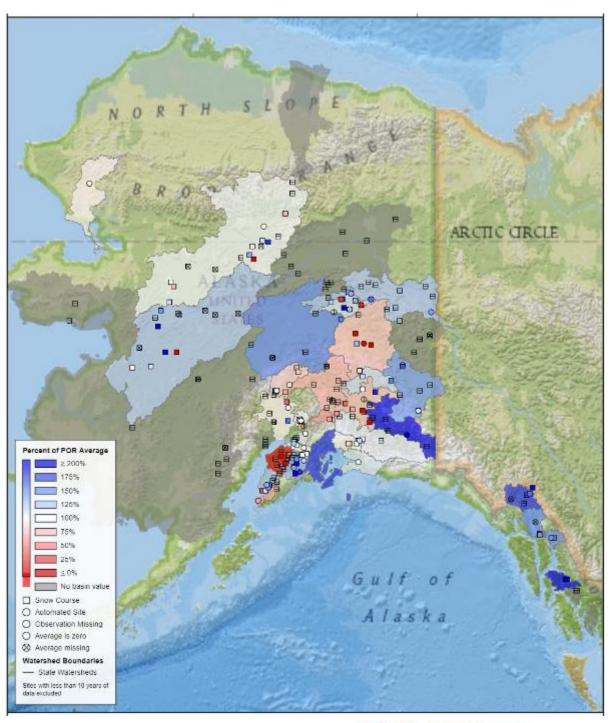


Water Year-to-date Precipitation (Oct. 1-April 30th, 2021)
(% of Period of Record Average)



Alaska Statewide Snowpack Map

Based on May 1st, 2021 Snow Water Equivalent



| FORECAST POINT* | Percent of | Period |
|----------------------------------------|------------|------------|
| | Ave. Flow | |
| Yukon River at Eagle | 113 | May - July |
| Porcupine River nr Int'l Boundary | 92 | May - July |
| Yukon River near Stevens Village | 113 | May - July |
| Tanana River at Fairbanks | 102 | May - July |
| Tanana River at Nenana | 103 | May - July |
| Little Chena River near Fairbanks | 121 | May - July |
| Chena River near Two Rivers | 118 | May - July |
| Salcha near Salchaket | 118 | May - July |
| Kuskokwim River at Crooked Creek | 122 | May - July |
| Sagvanirktok River near Pump Station 3 | 76 | May - July |
| Kuparuk River near Deadhorse | 74 | May - July |
| Gulkana River at Sourdough | 106 | May - July |
| Little Susitna River near Palmer | 103 | May - July |
| Talkeetna River near Talkeetna | 95 | May - July |
| Ship Creek near Anchorage | 102 | May - July |
| Kenai River at Cooper Landing | 104 | May - July |
| Bradley Lake Inflow | 92 | May - July |
| Taiya River nr Skagway | 123 | May - July |

Snowmelt Runoff Index (SRI): for streams which no longer have stream gauging

| • • | | | |
|-------------------------------------------|-------|----------|-------------------|
| FORECAST POINT | INDEX | | |
| Koyukuk River at Hughes | -1.5 | | |
| MF Koyukuk R near Wiseman | -0.5 | Index | Key: |
| Slate Creek at Coldfoot | 0.0 | | |
| Beaver Creek above Victoria Creek | _ | | much below aver- |
| Birch Creek below South Fork | 0.0 | -2 to -3 | age snowmelt run- |
| Caribou Creek at Chatanika | _ | | |
| Susitna River near Gold Creek | -2.0 | | off |
| Chulitna River near Talkeetna | -2.5 | | |
| Deshka River at mouth near Willow | _ | | below average |
| Montana Creek at Parks Highway | -2.0 | -1 to -2 | snowmelt runoff |
| Willow Creek near Willow | 0.5 | | |
| Skwentna River at Skwentna | _ | | avaraga spavimalt |
| Chuitna River near Tyonek | _ | -1 to +1 | average snowmelt |
| Campbell Creek near Spenard | _ | -1 (0+1 | runoff |
| Indian Creek at Indian | -2.0 | | |
| Bird Creek at Bird Creek | -2.0 | | above average |
| Glacier Creek nr Girdwood | -0.5 | +1 to +2 | snowmelt runoff |
| Six Mile Creek near Hope | 2.0 | | |
| Resurrection Creek near Hope | 1.5 | | |
| Grouse Ck at Grouse Lake Outlet nr Seward | 2.0 | . 2 2 | much above aver- |
| Anchor River near Anchor Point | -0.5 | +2 to +3 | age snowmelt run- |
| Deep Creek near Ninilchik | 0.0 | | off |
| Ninilchik River near Ninilchik | 0.0 | | |
| Fritz Creek near Homer | 0.0 | | |
| Skagway River at Skagway | 3.0 | | |
| Municipal Watershed C nr Petersburg | 2.5 | | |
| Gold Creek near Juneau | 2.0 | | |

HOW FORECASTS ARE MADE

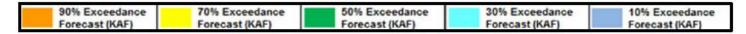
Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

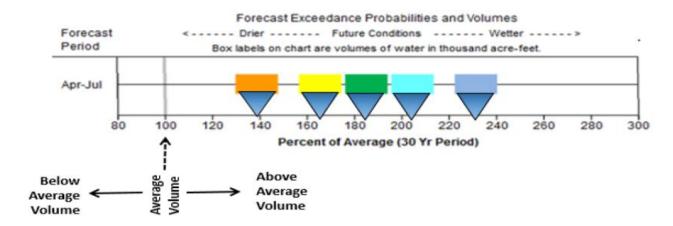
How to Interpret the Streamflow Forecast Graphic:

This graphic provides a visual alternative to the forecast tables the NRCS has presented for years. It gives both the volume and percent of average of each of the five forecast exceedances.

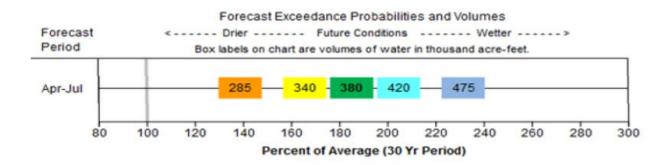


The five colored boxes represent each forecast's five exceedances.

The center of each forecast exceedance box corresponds to that exceedance's percent of average on the horizontal axis. In this case the green 50% exceedance forecast box is centered over 185% of average streamflow. If drier future conditions occur the orange box (90% exceedance) is 139% of average. If wetter future conditions occur the darker blue box (10% exceedance) is 232% of average. In some cases when exceedance volumes are similar, the width of the colored boxes gets squeezed. Still use the center of the box to determine its percent of average. The width of the box is irrelevant. Boxes to the right of the gray 100% of average line represent above average volumes. Conversely,



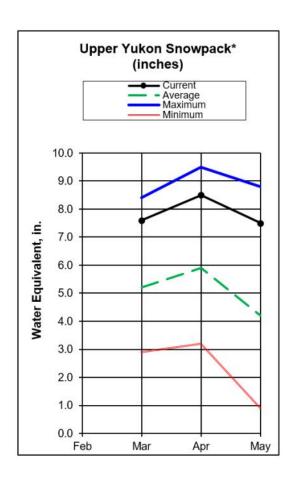
any boxes to the left of the gray 100% line represent below average volumes. In this case all forecast exceedances are for above average April-July volumes. Averages are based on the 1981-2010 period. The number inside or above each colored box represents the volume of that exceedance forecast in thousand acre-feet (KAF). In this case the green 50% exceedance forecast volume is 380 KAF which is centered above 185% of average. Volumes decrease with drier future conditions (left of green

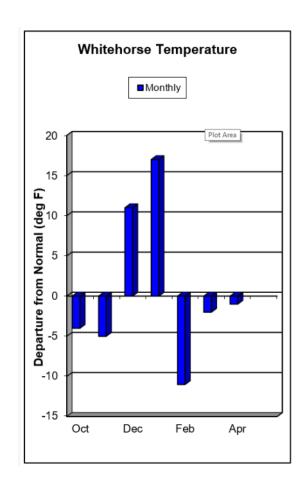


box) and increase with wetter conditions (right of green box).

Forecast graphics for other basins are available at: https://www.wcc.nrcs.usda.gov/wsf/Fcst_Chart/ This is an new product. Please submit likes, dislikes and questions to Daniel.Fisher2@usda.gov

Upper Yukon Basin





Snowpack

While Snowpack in the Upper Yukon has started to melt out and many sites have lost more snow than normal in April. Even so, snowpack in the area remains much above average. The 31 stations in this area report a combined 163% of median, more than last year's 137%.

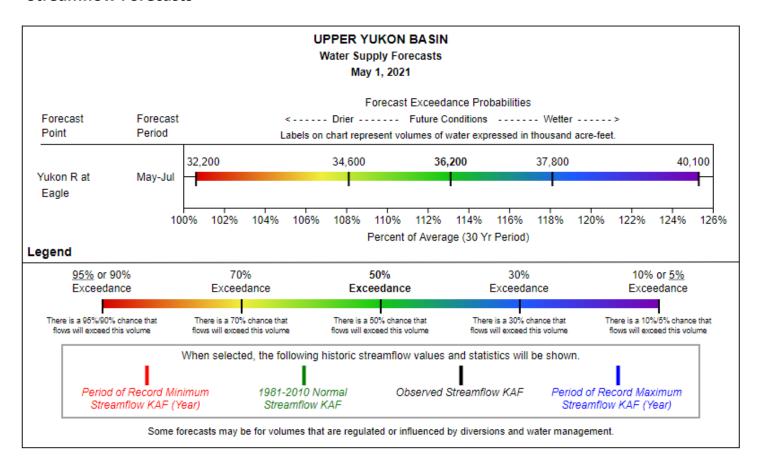
Several sites are still reporting record highs including Whitehorse Airport (57 years), Summit (24 years), Mt. McIntyre (46 years), Montana Mountain (45 years), and Log Cabin (64 years). Many other locations are reading their second, third, or fourth highest May first measurements.

The snowpack in the headwaters of the Yukon is substantial with the 10 sites above Whitehorse averaging 200% of normal. Snowpack lessens somewhat going north. The Stewart-Pelly basins are 144% of normal, similar to last year. The White River basin is 182% of normal and area around Dawson is 128% of average, both down from last year.

Upper Yukon Basin

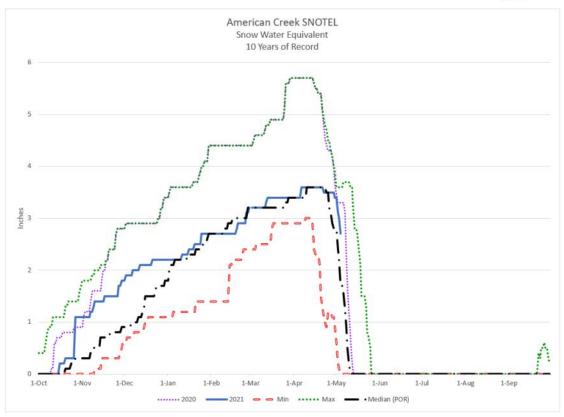
Snowpack Data

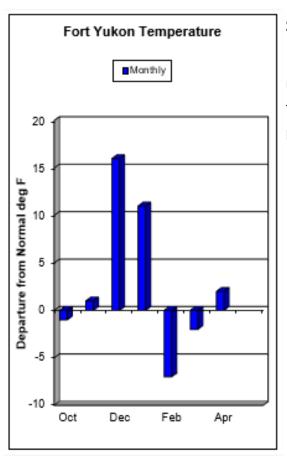
| Site Name Elev. Current Last Year 1881-2010 Normal Current Last Year 19 Beaver Creek 2150 0 0 4 0.0 0.0 Blackstone River 1020 19 19 3.7 4.9 Burwash Airstrip 2660 0 0 0 0.0 0.0 0.0 Calumet 4300 35 39 33 7.9 9.0 Canyon Mine 1160 13 6 3.5 1.5 Casino Creek 3495 24 24 20 6.0 6.9 Chair Mountain 3500 0 0.0 Eagle Plains 2330 15 32 18 3.7 8.2 Eagle Plains 2330 15 32 18 3.7 6.3 Edwards Lake 2720 33 22 17 3.7 6.3 Edwards Lake 2720 | n) |
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| Grizzly Creek 3200 22 28 22 5.1 7.6 Hoole River 3400 32 22 14 9.4 6.5 Hyland 855 31 25 9.7 9.2 Jordan Lake 3050 26 22 13 7.2 6.3 King Solomon Dome 3540 20 28 18 6.8 9.5 Macintosh 3805 12 14 6 3.5 3.5 Mayo Airport 1770 8 14 0 2.1 4.1 Meadow Creek 4050 50 43 39 13.6 13.6 Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 | |
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| Hyland 855 31 25 9.7 9.2 Jordan Lake 3050 26 22 13 7.2 6.3 King Solomon Dome 3540 20 28 18 6.8 9.5 Macintosh 3805 12 14 6 3.5 3.5 Mayo Airport 1770 8 14 0 2.1 4.1 Meadow Creek 4050 50 43 39 13.6 13.6 Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 <t< td=""><td>5.4</td></t<> | 5.4 |
| Jordan Lake 3050 26 22 13 7.2 6.3 King Solomon Dome 3540 20 28 18 6.8 9.5 Macintosh 3805 12 14 6 3.5 3.5 Mayo Airport 1770 8 14 0 2.1 4.1 Meadow Creek 4050 50 43 39 13.6 13.6 Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* | 3.4 |
| Jordan Lake 3050 26 22 13 7.2 6.3 King Solomon Dome 3540 20 28 18 6.8 9.5 Macintosh 3805 12 14 6 3.5 3.5 Mayo Airport 1770 8 14 0 2.1 4.1 Meadow Creek 4050 50 43 39 13.6 13.6 Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* | |
| Macintosh 3805 12 14 6 3.5 3.5 Mayo Airport 1770 8 14 0 2.1 4.1 Meadow Creek 4050 50 43 39 13.6 13.6 Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 | 3.5 |
| Macintosh 3805 12 14 6 3.5 3.5 Mayo Airport 1770 8 14 0 2.1 4.1 Meadow Creek 4050 50 43 39 13.6 13.6 Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 | 4.9 |
| Mayo Airport 1770 8 14 0 2.1 4.1 Meadow Creek 4050 50 43 39 13.6 13.6 Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 <td>1.1</td> | 1.1 |
| Meadow Creek 4050 50 43 39 13.6 13.6 Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 <td>0.0</td> | 0.0 |
| Midnight Dome 2805 28 33 20 7.9 10.1 Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 | 11.1 |
| Montana Mtn. 3350 29 13 17 8.6 3.6 Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 <td>5.2</td> | 5.2 |
| Morley Lake 2700 23 8 11 8.8 2.2 Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | 4.9 |
| Mt. Berdoe 3395 22 15 10 5.4 4.1 Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | 3.3 |
| Mt. Mcintyre B 3600 33 22 20 8.9 6.5 Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | 2.0 |
| Mt. Nansen 3350 0 6 0 0.0 2.1 Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | 5.4 |
| Ogilvie River 550 20 19 3.9* 4.5 Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | 0.0 |
| Old Crow 980 15 22 19 3.3* 6.2 Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | |
| Pelly Farm 1550 9 6 0 2.5 2.2 Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | 4.0 |
| Pine Lake Airstrip 995 37 31 11.8 10.8 Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | 0.0 |
| Plata Airstrip 2725 33 23 19 9.8 7.7 Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | |
| Rackla Lake 3410 32 32 30 7.9 10.2 Riffs Ridge 2130 17 25 17 3.6 7.1 Rose Creek Faro 1080 19 10 5.3 2.7 | 5.9 |
| Rose Creek Faro 1080 19 10 5.3 2.7 | 8.2 |
| Rose Creek Faro 1080 19 10 5.3 2.7 | 4.7 |
| | |
| . 14000 | 8.6 |
| Satasha Lake 3630 9 2 2.4 | 0.6 |
| Summit 985 44 21 16.6 | 6.4 |
| Tagish 3540 27 13 16 7.0 3.7 | 4.6 |
| Twin Creeks 2950 28 21 20 8.1 6.6 | 6.1 |
| Watson Lake Airport 685 15 3 3.8 0.6 | |
| Whitehorse Airport 2300 15 2 0 5.8 0.6 | 0.0 |
| Williams Creek 3000 17 10 6 3.7 2.6 | 1.9 |
| Withers Lake 3200 33 34 28 9.7 11.5 | 8.7 |
| *Estimate | |



Central Yukon Basin







Snowpack

The Central Yukon Basin continued to receive below normal precipitation during April. Snowpack along the Mertie Mountains and White Mountains remain above normal while the snowpack in the upper Porcupine basin is below normal.

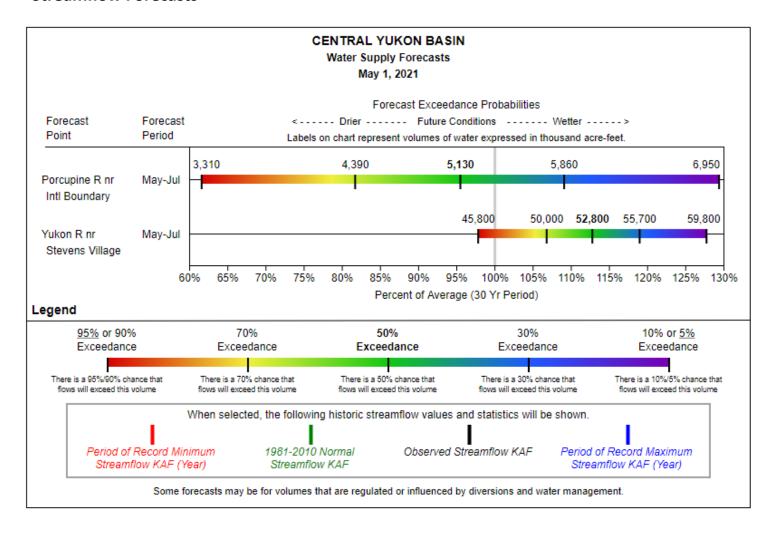
Central Yukon Basin

Snowpack Data

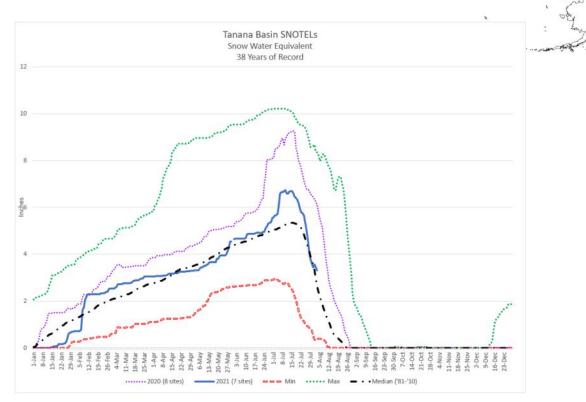
| | | Snow Depth | | | Water Content | | |
|----------------|-------|------------|-----------|---------------------|---------------|-----------|---------------------|
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median |
| American Creek | 1050 | 10 | 13 | | 3.1 | 3.3 | |
| Atigun Pass | 4800 | 44 | 47 | | | | |
| Eagle Summit | 3650 | 11 | 12 | | | | |
| Fort Yukon | 430 | 0 | 2 | | | | |
| Jack Wade Jct | 3585 | 18 | 30 | | 3.4 | 6.5 | |
| Old Crow | 980 | 15 | 22 | 19 | 3.3* | 6.2 | 4.0 |
| *Estimate | | • | | | | | |

Precipitation

| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|------------------|-------|-----------|-----------|------------------|-------------|
| American Creek | 1050 | 3.5 | 6.7 | | |
| Atigun Pass | 4800 | 4.8 | 7.7 | 6.7 | 72% |
| Chandalar Shelf | 3300 | 3.7 | 8.0 | 5.2 | 71% |
| Eagle Summit | 3650 | 6.0 | 9.4 | 5.9 | 102% |
| Fort Yukon | 430 | 3.0 | 4.8 | 3.9 | 77% |
| Jack Wade Jct | 3585 | 5.0 | 8.5 | | |
| Upper Nome Creek | 2520 | | 15.4 | 6.5 | |



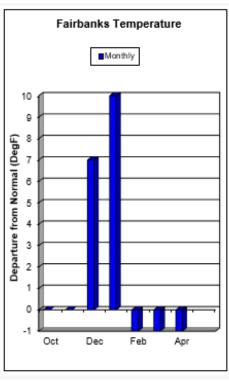




Snowpack

The Tanana experienced above normal peak snowpack and then a quick onset of melt out. So, while much of the basin still has above normal snowpack, many lower areas have already melted out. The middle Tanana, near Delta Junction is reporting below normal snowpack, while the lower basin, Fairbanks and the upper basin, above Tok are reporting above normal snowpacks.

The Chena Basin is reporting an average of 148% of normal snow-pack, less than the 224% last year.



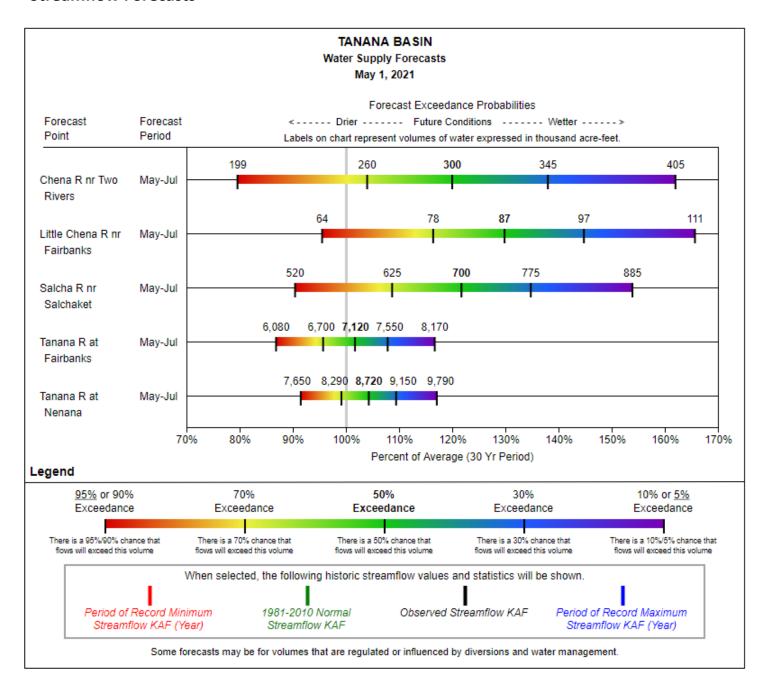
Tanana Basin

Snowpack Data

| | | Snow Depth | | | Water Content | | |
|---------------------|-------|------------|-----------|---------------------|---------------|-----------|---------------------|
| Site Name | Elev. | Current | Last Year | 1981-2010 Normal | Current | Last Year | 1981-2010 Normal |
| Bonanza Creek | 1150 | 19 | | 0 | 5.0* | | 0.0 |
| Caribou Creek | 1250 | 4 | | 0 | 0.5 | | 0.0 |
| Caribou Snow Pillow | 900 | 8 | | 0 | 2.0 | | 0.0 |
| Chisana | 3320 | 8 | 0 | | 2.6 | 0.0 | 2.8 |
| Cleary Summit | 2230 | 26 | | 19 | 7.7 | | 4.9 |
| Colorado Creek | 700 | 16 | | 4 | 4.6 | | 1.0 |
| Faith Creek | 1750 | 16 | | 7 | 4.2 | | 2.0 |
| Fielding Lake | 3000 | 37 | | 34 | 9.6 | | 10.2 |
| Fielding Lake | 3000 | 24 | 49 | | 7.2 | 16.1 | |
| Fort Greely | 1500 | 5 | | 0 | 1.2 | | 0.0 |
| French Creek | 1800 | 22 | | 13 | 7.0 | | 3.6 |
| Gerstle River | 1200 | 0 | | 2 | 0.0 | | 0.6 |
| Granite Crk | 1240 | 0 | 9 | | 0.0 | 3.0 | 0.0 |
| Mentasta Pass | 2430 | 21 | | 14 | 7.0 | | 3.9 |
| Monument Creek | 1850 | 13 | 21 | | 3.8 | 7.2 | 2.1 |
| Mt. Ryan | 2800 | 22 | 35 | | 6.6 | 10.5 | 4.7 |
| Munson Ridge | 3100 | 37 | 54 | | 11.1 | 14.9 | 7.9 |
| Shaw Creek Flats | 980 | 0 | | 0 | 0.0 | | 0.0 |
| Teuchet Creek | 1640 | 1 | 7 | | 0.2 | 4.2 | 1.3 |
| Tok Junction | 1650 | 7 | | 0 | 1.6 | | 0.0 |
| *Estimate | | • | | • | • | | |

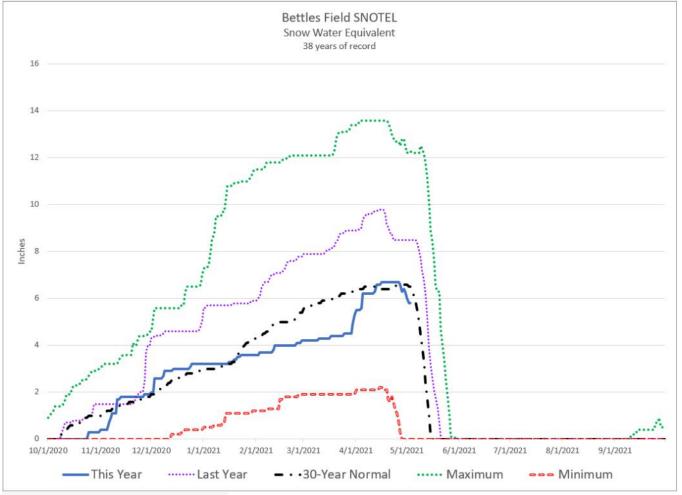
Precipitation

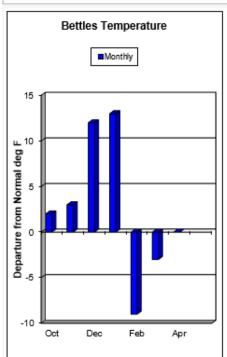
| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|--------------------|-------|-----------|-----------|------------------|-------------|
| Chena Lakes | 500 | 6.8 | | | |
| Chisana | 3320 | 4.7 | 5.0 | | |
| Fielding Lake | 3000 | 9.1 | 17.8 | | |
| Granite Crk | 1240 | 4.6 | 8.6 | 4.4 | 105% |
| Kantishna | 1550 | 8.6 | 11.2 | 5.0 | 172% |
| Little Chena Ridge | 2000 | 6.9 | 11.8 | 6.2 | 111% |
| Mt. Ryan | 2800 | 8.0 | 12.8 | 6.3 | 127% |
| Munson Ridge | 3100 | 10.2 | 16.1 | 8.6 | 119% |
| Nenana | 415 | 5.8 | 8.5 | | |
| Teuchet Creek | 1640 | 5.1 | 8.4 | 5.0 | 102% |
| Upper Chena | 2850 | 8.9 | 14.6 | 7.9 | 113% |



Western Interior Basins







Snowpack

<u>Koyukuk</u>

April brought above average precipitation to the upper Koyukuk and both Bettles and Coldfoot made snowpack gains during April. However, the basin as a whole, still has below normal snowpack, with some dispersed stations reporting above average packs.

Kuskokwim

The Kuskokwim had a wetter than average April. Snowpack is above normal, but melt out hit quickly. Telaquana Lake Snow Course, which began in 1992, set a new May $\mathbf{1}^{\text{st}}$ record, while the Telaquana Lake SNOTEL, just 100 feet away, was completely melted out by May $\mathbf{1}^{\text{st}}$. Aniak SCAN had its latest meltout since 2013.

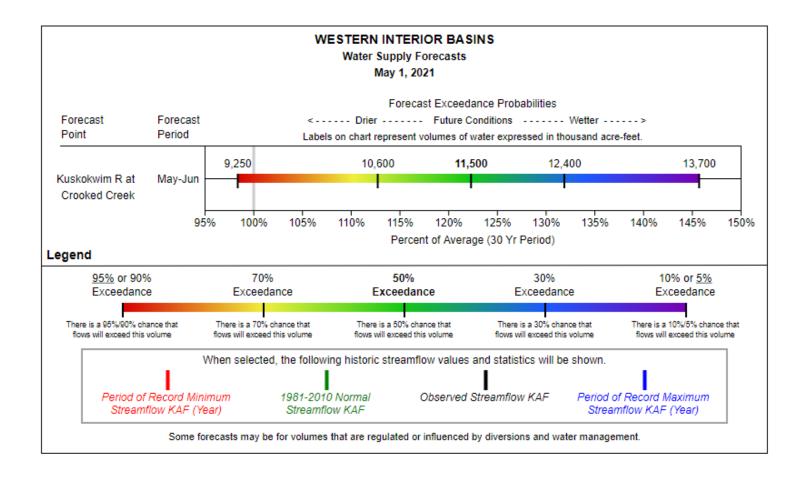
Lower Yukon

Snowpack in the lower Yukon remains above average. Sites here index to 124% of normal. The Galena AK SNOTEL has begun melting out and looks like it will be snow free by April 12th, similar to the last two years.

Western Interior Basins

Snowpack Data

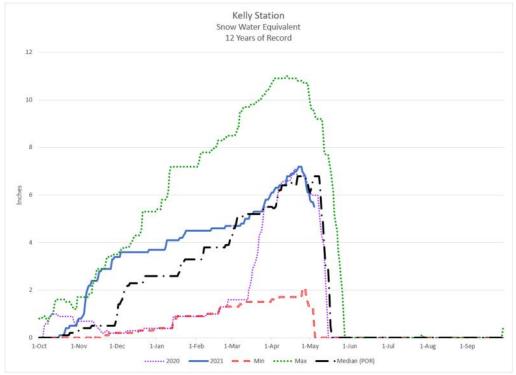
| | | | Snow Depth | | Water Content | | | |
|-----------------------|-------|---------|------------|---------------------|---------------|-----------|---------------------|--|
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median | |
| Koyukuk | | | | | | | | |
| Bettles Field | 640 | 22 | 28 | | 6.0 | 8.5 | 6.6 | |
| Cloverleaf | 170 | 9 | 12 | | 2.4* | 4.3 | | |
| Coldfoot | 1040 | 17 | 29 | | 4.2 | 8.4 | 6.1 | |
| Colville Bend | 170 | 17 | 19 | | 4.6* | 6.3 | | |
| East Chalatna | 430 | 4 | | | 1.0 | | | |
| Gobblers Knob | 2030 | 2 | 9 | | | | | |
| Huggins Creek | 290 | 17 | 24 | | 4.7* | 7.9 | | |
| Jr Slough | 160 | 18 | 12 | | 4.9* | 4.0 | | |
| Kaldoyeit | 750 | 27 | | 10 | 6.9* | | 2.8 | |
| Kanuti Chalatna | 670 | 12 | | 16 | 3.1* | | 3.8 | |
| Kanuti Kilolitna | 550 | 0 | | 9 | 0.0 | | 2.8 | |
| Minnkokut | 580 | 26 | | 26 | 7.1* | | 6.6 | |
| Nolitna | 560 | 21 | | 14 | 5.5* | | | |
| Treat Island | 190 | 9 | 21 | | 2.5* | 6.3 | | |
| Kuskokwim | | | | | | | | |
| Aniak | 80 | 7 | 0 | | | | | |
| McGrath | 340 | | 21 | | 7.6 | 12.6 | | |
| Telaquana Lake | 1550 | 19 | | | 5.7 | | | |
| Telaquana Lake SNOTEL | 1275 | 0 | 0 | | 0.0 | 0.0 | | |
| Lower Yukon | | | | | | | | |
| Bullfrog | 100 | 15 | 24 | | 4.4 | 7.9 | | |
| Deer Creek | 195 | 17 | 27 | | 4.7* | 9.2 | | |
| Hozatka Lake | 206 | 10 | 6 | | | | | |
| Little Mud River | 855 | 6 | 24 | | 1.6* | 8.0 | | |
| Lower Nowitna River | 205 | 12 | | | 3.3* | | | |
| Middle Innoko | 150 | 18 | 23 | 0 | 5.0* | 7.9 | 0.0 | |
| Pike Trap Lake | 130 | 6 | 0 | | 1.6* | 0.0 | | |
| Squirrel Creek | 150 | 27 | 21 | | 7.8* | 7.1 | | |
| Upper Innoko | 180 | 0 | | 0 | 0.0 | | 0.0 | |
| Wapoo Hills | 220 | 30 | 6 | 0 | 9.1* | 1.8 | 0.0 | |
| Yankee Slough | 100 | 21 | 24 | 24 | 5.9* | 8.4 | 7.5 | |
| *Estimate | | 1 | | , | | | | |

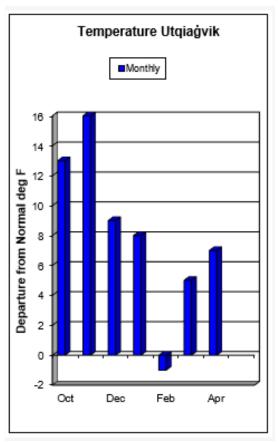


Precipitation

| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|----------------|-------|-----------|-----------|------------------|-------------|
| Koyukuk | | | | | |
| Bettles Field | 640 | 6.4 | 12.0 | 7.6 | 84% |
| Coldfoot | 1040 | 5.4 | 11.6 | 7.3 | 74% |
| Galena AK | 410 | 6.2 | 9.9 | | |
| Gobblers Knob | 2030 | 5.3 | 13.0 | 7.6 | 70% |
| Hozatka Lake | 206 | 6.4 | 9.3 | | |
| Kuskokwim | | | | | |
| Aniak | 80 | 13.3 | 14.3 | | |
| McGrath | 340 | 9.9 | 17.9 | | |
| Telaquana Lake | 1275 | 11.3 | 14.0 | | |







Snowpack

Arctic

The stations along the Dalton Highway reported below average precipitation during April. Reported snow depths are slightly below average.

Kotzebue

Kelly Station SNOTEL had peak snowpack right above average, but has been experiencing faster than average melt out. Precipitation in the region was variable during April, but generally was near average.

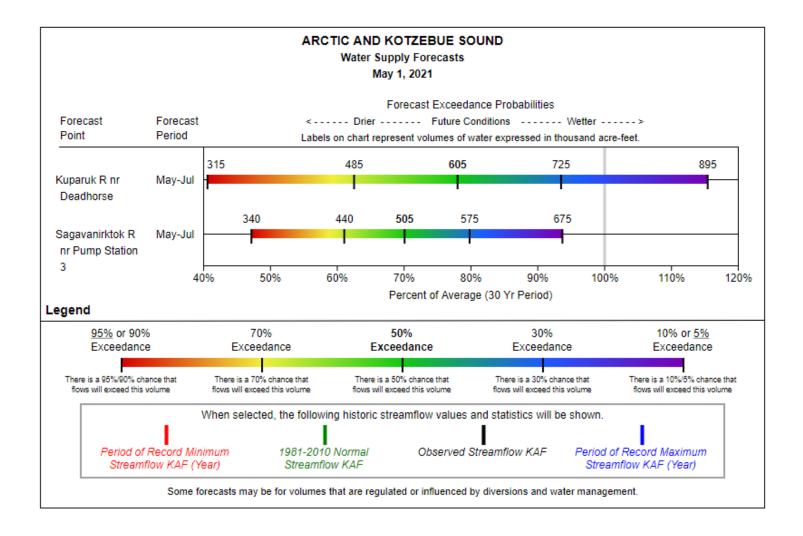
Arctic and Kotzebue Sound

Snowpack Data

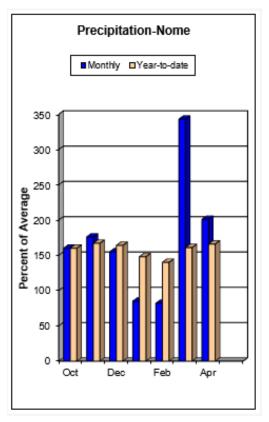
| | | Snow Depth | | | | Water Content | ŧ |
|----------------|-------|------------|-----------|---------------------|---------|---------------|---------------------|
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median |
| Atigun Pass | 4800 | 44 | 47 | | | | |
| Imnaviat Creek | 3050 | 23 | 33 | | | | |
| Kelly Station | 310 | 20 | 19 | | 5.7 | 6.0* | |
| Prudhoe Bay | 30 | 9 | 15 | | | | |
| Sagwon | 1000 | 23 | 17 | | | | |
| *Estimate | | • | | | • | | |

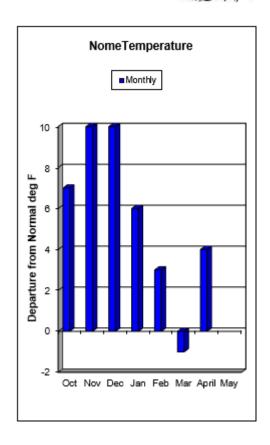
Precipitation

| | | | | , , , , , , , , , , , , , , , , , , , , | | | |
|----------------|-------|-----------|-----------|-----------------------------------------|-------------|--|--|
| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal | | |
| Arctic | | | | | | | |
| Atigun Camp | 3400 | 2.1 | 3.8 | 3.0 | 70% | | |
| Atigun Pass | 4800 | 4.8 | 7.7 | 6.7 | 72% | | |
| Imnaviat Creek | 3050 | 2.4 | 3.6 | 3.3 | 73% | | |
| Prudhoe Bay | 30 | 3.3 | 3.6 | 4.1 | 80% | | |
| Sagwon | 1000 | 2.9 | 3.3 | 3.4 | 85% | | |
| Kotzebue Sound | | | | | | | |
| Port Red Dog | 50 | 3.1 | | 4.2 | 74% | | |
| Red Dog Mine | 950 | 5.8 | | 5.3 | 109% | | |
| Kelly Station | 310 | 7.4 | 9.6 | | | | |



Norton Sound/Y-K Delta/Bristol Bay





Snowpack

The Seward Peninsula had above average precipitation during April. Reported snow depths are above average.

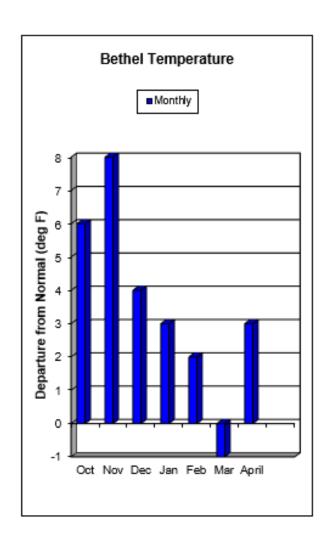
Precipitation

| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|--------------|-------|-----------|-----------|------------------|-------------|
| Norton Sound | | | | | _ |
| Pargon Creek | 100 | 7.6 | 8.5 | 6.7 | 113% |
| Rocky Point | 250 | 4.8 | 7.6 | 5.8 | 83% |

Norton Sound/Bristol Bay

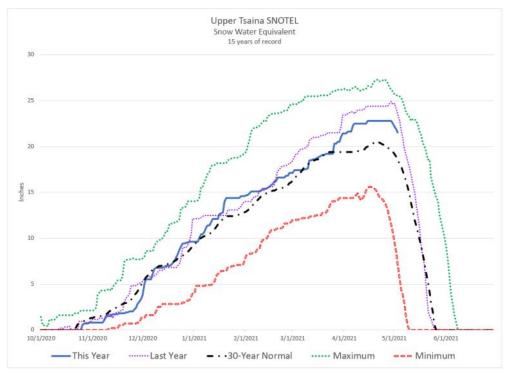
Snowpack Data

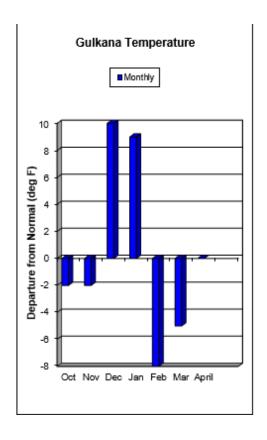
| | | Snow Depth | | | Water Content | | |
|---------------|-------|------------|-----------|---------------------|---------------|-----------|---------------------|
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median |
| Norton Sound | | | | | | | |
| Johnsons Camp | 25 | 24 | 14 | | | | |
| Pargon Creek | 100 | 11 | | | | | |
| Rocky Point | 250 | 29 | | | | | |
| *Estimate | | • | | | - | | |



Copper Basin







Snowpack

Snowpack in the Copper ranges from below to above normal. Peak snowpack was a week later than average, but melt out had been quick. Most sites which are typically melted out by May 1st are melted out. But other sites range from having half of average to twice average, the stature of the site has more to do with melt out rates than peak snowpack. May Creek SNOTEL which recorded its second highest May 1st reading is quickly melting out and is only a week behind average.

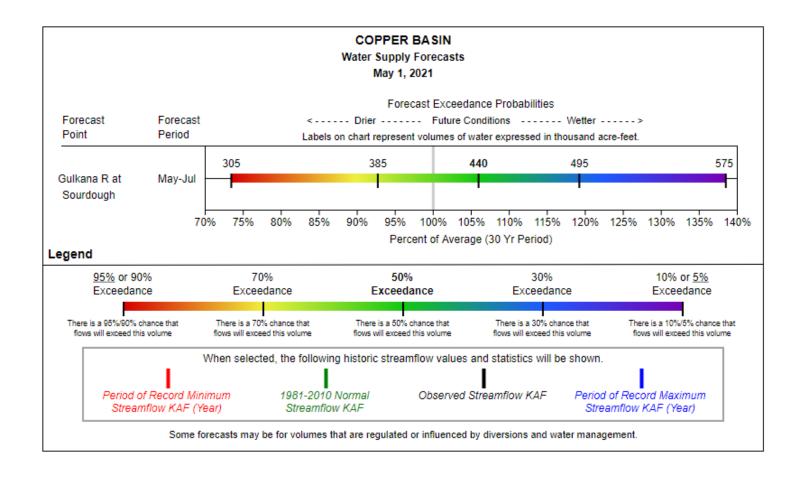
Copper Basin

Snowpack Data

| | | Snow Depth | | | Water Content | | |
|----------------------|-------|------------|-----------|---------------------|---------------|-----------|---------------------|
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median |
| Chistochina | 1950 | 8 | 0 | 0 | 2.0 | 0.0 | 0.0 |
| Fielding Lake | 3000 | 37 | 54 | 34 | 9.6 | 16.0 | 10.2 |
| Fielding Lake SNOTEL | 3000 | 24 | 49 | | 7.2 | 16.1 | |
| Gulkana River | 1830 | 0 | 0 | | 0.0 | 0.0 | |
| Haggard Creek | 2540 | 17 | 16 | 14 | 4.6 | 5.8 | 4.3 |
| Kenny Lake School | 1300 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Little Nelchina | 2650 | 4 | 8 | 12 | 1.7 | 2.4 | 3.7 |
| May Creek | 1610 | 12 | 0 | | 4.7 | 0.0 | 2.0 |
| Mentasta Pass | 2430 | 21 | 21 | 14 | 7.0 | 6.8 | 3.9 |
| Paxson | 2650 | 28 | 31 | 22 | 7.2 | 10.2 | 6.4 |
| Tazlina | 1250 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Tolsona Creek | 2000 | 4 | 4 | 0 | 1.1 | 1.2 | 0.0 |
| Tsaina River | 1650 | 35 | | 42 | 14.1 | | 14.0 |
| Upper Tsaina River | 1750 | 54 | 59 | | 22.2 | 24.7 | 19.2 |
| Worthington Glacier | 2100 | 63 | | 63 | 25.5 | | 24.6 |
| *Estimate | | • | | | 1 | | |

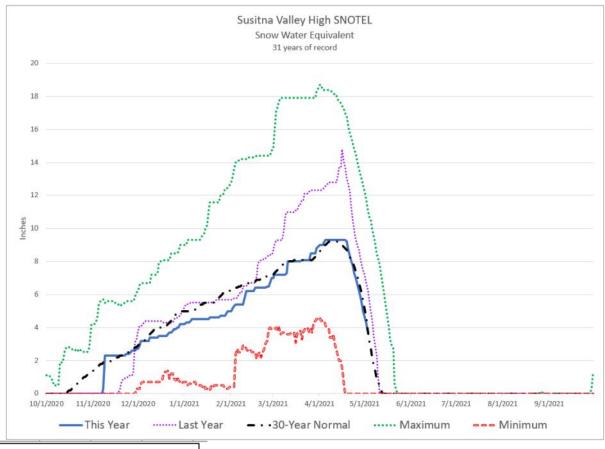
Precipitation

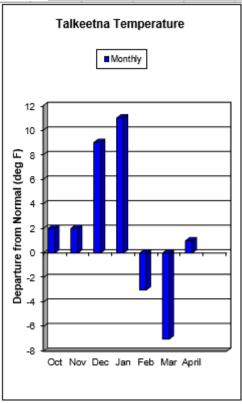
| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|---------------|-------|-----------|-----------|------------------|-------------|
| Gulkana River | 1830 | 7.7 | 6.8 | | |
| May Creek | 1610 | 8.8 | 7.4 | 6.5 | 135% |
| Upper Chena | 2850 | 8.9 | 14.6 | 7.9 | 113% |



Matanuska—Susitna Basin







Snowpack

The Susitna Basin received below average April precipitation. In many locations snowpack peaked above normal and started melting out a week early. As a result, snowpack in most of the basin is below normal. The exception is the Little Susitna Drainage, which indexes to 110% of normal. Similarly, Willow Airstrip Snow Course, which has had above normal snow the whole winter, continues to have above normal snowpack.

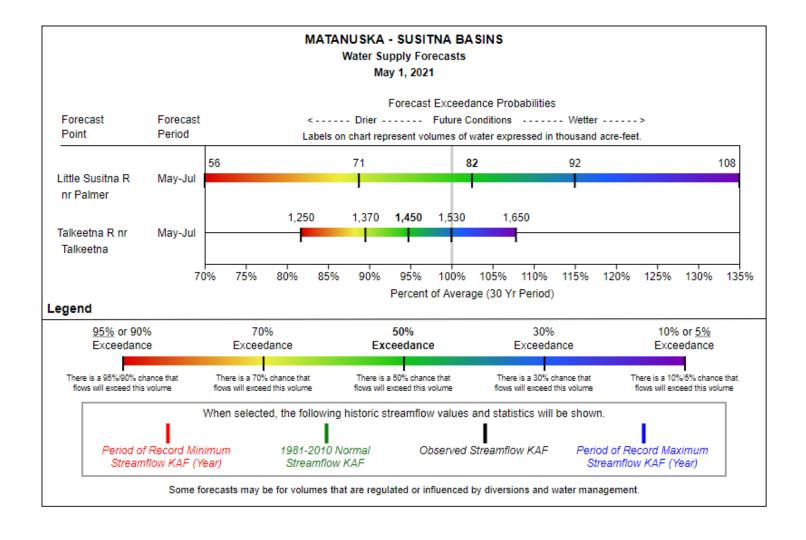
Precipitation

Matanuska—Susitna Basin

| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|---------------------|-------|-----------|-----------|------------------|-------------|
| Alexander Lake | 160 | 14.2 | 21.5 | | |
| Frostbite Bottom | 2700 | 18.7 | 27.6 | | |
| Independence Mine | 3550 | 18.8 | 30.9 | 18.0 | 104% |
| Monahan Flat | 2710 | 8.3 | 13.7 | 8.6 | 97% |
| Spring Creek | 580 | 8.0 | 10.5 | | |
| Susitna Valley High | 375 | 11.5 | 22.8 | 13.4 | 86% |
| Tokositna Valley | 850 | 16.8 | 35.3 | 21.4 | 79% |

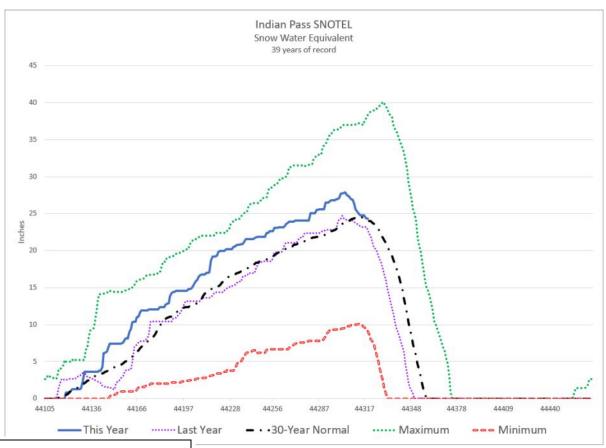
| Snowpack Data | | | | | | | | |
|--------------------------|-------|---------|------------|---------------------|---------|---------------|---------------------|--|
| • | | | Snow Depth | | | Water Content | | |
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median | |
| Alexander Lake | 160 | 0 | 12 | | 0.0 | 4.4 | | |
| Archangel Road | 2200 | 42 | 40 | 35 | 15.8* | 15.6 | 11.7 | |
| Birthday Pass | 4020 | 72 | 117 | | 28.7 | 49.3 | | |
| Blueberry Hill | 1200 | 32 | 51 | 40 | 12.5 | 16.9 | 14.1 | |
| Denali View | 700 | 16 | 33 | 27 | 5.9 | 12.5 | 9.1 | |
| E. Fork Chulitna | 1770 | 32 | 52 | 42 | 11.3 | 16.8 | 12.4 | |
| Fishhook Basin | 3300 | 51 | 83 | 55 | 19.0 | 33.5 | 19.5 | |
| Frostbite Bottom | 2700 | 40 | 51 | | 15.6 | 21.4 | | |
| Independence Mine | 3550 | 58 | 94 | 61 | 22.0 | 40.8 | 21.8 | |
| Independence Mine SNOTEL | 3550 | 38 | 76 | | 15.8 | 27.7 | 14.6 | |
| Lake Louise | 2400 | 4 | 6 | 11 | 1.1 | 2.0 | 2.9 | |
| Little Susitna | 1700 | 31 | 28 | 21 | 11.5 | 9.5 | 8.2 | |
| Monahan Flat | 2710 | 22 | 30 | | 6.7 | 9.7 | | |
| Sheep Mountain | 2900 | 7 | 6 | 11 | 2.0 | 1.7 | 3.1 | |
| Susitna Valley High | 375 | 14 | 20 | | 4.6 | 7.2 | 5.1 | |
| Talkeetna | 350 | 5 | 19 | 12 | 1.8 | 6.7 | 4.0 | |
| Tokositna Valley | 850 | 35 | 55 | | 13.3 | 19.9 | 11.8 | |
| Willow Airstrip | 200 | 17 | 18 | 10 | 5.2 | 6.0 | 3.3 | |
| • | | 1 | | | ı | | | |

^{*}Estimate



Northern Cook Inlet





Snowpack

The Northern Cook Inlet Region generally received below normal April precipitation. Snowpack water content peaked above average and started melting out early. The snowpack on May $\mathbf{1}^{\text{st}}$ was near normal, ranging from 68% to 121% of median.

Northern Cook Inlet

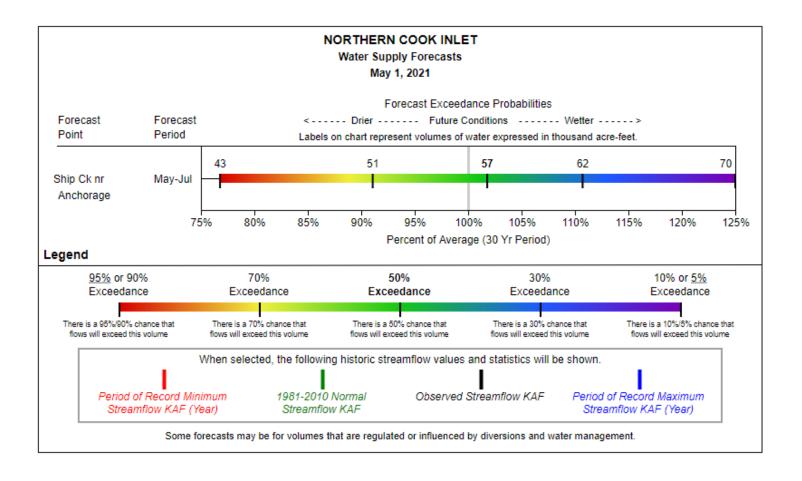
Snowpack Data

| | | Snow Depth | | | | Water Content | | |
|----------------------|-------|------------|-----------|---------------------|---------|---------------|---------------------|--|
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median | |
| Anchorage Hillside | 2080 | 24 | 12 | | 8.7 | 3.6 | 10.8 | |
| Indian Pass | 2350 | 55 | 53 | | 24.7 | 23.2 | 24.3 | |
| Kincaid Park | 250 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | |
| Moraine | 2100 | 11 | 3 | | 4.4 | 8.0 | 6.5 | |
| Mt. Alyeska | 1540 | 73 | 31 | | 31.0 | 12.2 | 35.2 | |
| Portage Valley | 50 | 22 | 18 | 14 | 8.2 | 7.7 | 6.2 | |
| South Campbell Creek | 1200 | 12 | 0 | 10 | 4.1 | 0.0 | 3.4 | |

^{*}Estimate

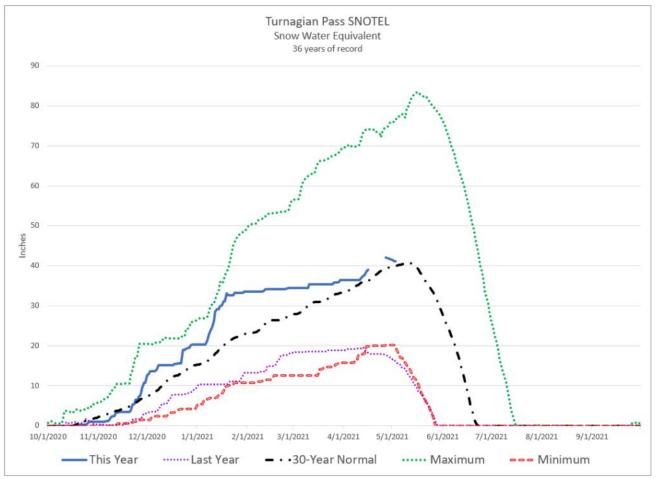
Precipitation

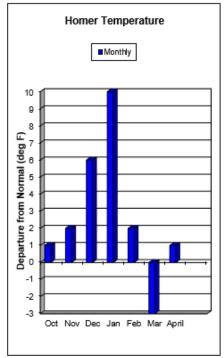
| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|--------------------|-------|-----------|-----------|------------------|-------------|
| Anchorage Hillside | 2080 | 15.2 | 19.4 | 15.5 | 98% |
| Indian Pass | 2350 | 29.5 | 38.8 | 28.4 | 104% |
| Moraine | 2100 | 11.1 | 12.2 | 12.7 | 87% |
| Mt. Alyeska | 1540 | 42.3 | 42.2 | 52.9 | 80% |
| Spring Creek | 580 | 8.0 | 10.5 | | |



Kenai Peninsula







Snowpack

April was a dry month on the Kenai Peninsula. Snowpacks reached an above normal peak water content and then started melting out a week ahead of schedule. Measured snowpack remained above normal on May 1st. The 19 measured sites indexed to 128% of normal, compared to 23% of normal last year. All these lower sites had considerably more snow than last year; however, the new higher elevation sites had less snow than last year.

Kenai Peninsula

Snowpack Data

| | | | Snow Depth | | Water Content | | |
|----------------------|-------|---------|------------|---------------------|---------------|-----------|---------------------|
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median |
| Anchor River Divide | 1653 | 34 | 13 | | 14.1 | 3.9 | 10.0 |
| Bertha Creek | 950 | 58 | 21 | 50 | 22.3 | 7.6 | 17.7 |
| Bridge Creek | 1300 | 30 | 0 | 32 | 11.5 | 0.0 | 10.6 |
| Cooper Lake | 1200 | 39 | 9 | | 16.0 | 2.3 | 12.0 |
| Demonstration Forest | 780 | 4 | 0 | 13 | 1.5 | 0.0 | 4.6 |
| Eagle Lake | 1400 | 35 | 0 | 24 | 14.6 | 0.0 | 9.0 |
| Exit Glacier | 400 | 48 | 4 | 26 | 19.7 | 1.2 | 10.8 |
| Exit Glacier SNOTEL | 400 | 44 | 0 | | 16.4 | 0.0 | 11.0 |
| Grandview | 1100 | 82 | 27 | | 37.3 | 10.0 | 34.6 |
| Grouse Creek Divide | 700 | 50 | 2 | | 22.8 | 0.1 | 16.0 |
| Jean Lake | 620 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Kenai Moose Pens | 300 | 2 | 0 | | 0.0 | 0.0 | 0.0 |
| Kenai Summit | 1390 | 38 | 11 | 30 | 16.2 | 3.5 | 11.3 |
| Lark Valley | 3350 | 67 | 59 | | 31.0 | 26.3 | |
| Lower Kachemak Creek | 1915 | 49 | 0 | | | | |
| Mcneil Canyon | 1320 | 24 | 1 | | 9.6 | 8.0 | 8.0 |
| Middle Fork Bradley | 2300 | 64 | 0 | | | | |
| Moose Pass | 700 | 26 | 0 | 0 | 7.6 | 0.0 | 0.0 |
| Mt. Alyeska | 1540 | 73 | 31 | | 31.0 | 12.2 | 35.2 |
| Nellie Juan Tarn | 3130 | | 100 | | | 50.9 | |
| Port Graham | 300 | 15 | 0 | | 2.6 | 0.0 | 4.0 |
| Portage Valley | 50 | 22 | 18 | 14 | 8.2 | 7.7 | 6.2 |
| Primrose | 2130 | 93 | 54 | | 45.3 | 23.4 | |
| Snug Harbor Road | 500 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Spencer Bench | 2430 | 100 | 109 | | 49.4 | 49.6 | |
| Summit Creek | 1400 | 25 | 5 | | 10.2 | 2.0 | 6.7 |
| Tincan | 3400 | 100 | 109 | | 45.2 | 44.6 | |
| Turnagain Pass | 1880 | 87 | 39 | | 41.4 | 16.6 | 39.8 |
| Upper Mill Creek | 3750 | 100 | 90 | | 49.4 | 40.6 | |
| | | 1 | | | | | |

^{*}Estimate

Kenai Peninsula

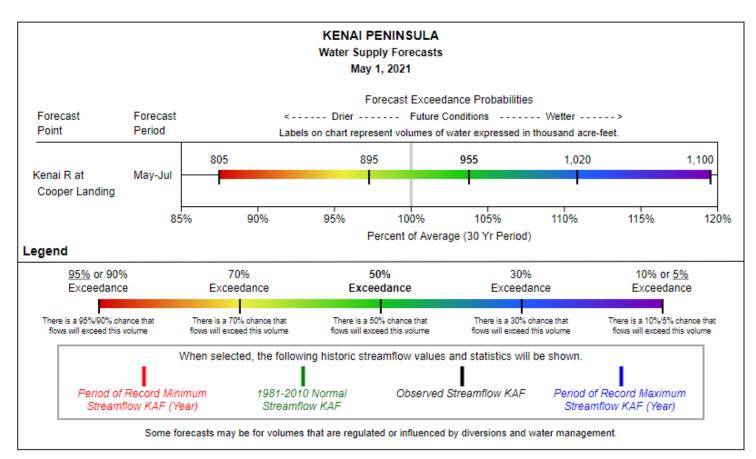
Precipitation

Inches Accumulated since October 1st (as of May 1, 2021)

| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|----------------------|-------|-----------|-----------|------------------|-------------|
| Anchor River Divide | 1653 | 19.0 | 26.6 | 18.5 | 103% |
| Cooper Lake | 1200 | 25.8 | 28.4 | 27.1 | 95% |
| Exit Glacier | 400 | 55.7 | 50.9 | | |
| Grandview | 1100 | 35.5 | 38.5 | 46.9 | 76% |
| Grouse Creek Divide | 700 | 42.7 | 35.4 | 41.9 | 102% |
| Kenai Moose Pens | 300 | 10.0 | 12.4 | 8.9 | 112% |
| Lower Kachemak Creek | 1915 | 39.3 | | | |
| Mcneil Canyon | 1320 | 18.3 | 20.0 | 17.9 | 102% |
| Middle Fork Bradley | 2300 | 36.1 | 43.2 | 35.6 | 101% |
| Nuka Glacier | 1250 | 53.7 | | 60.8 | 88% |
| Port Graham | 300 | 51.6 | 54.2 | 52.8 | 98% |
| Summit Creek | 1400 | 15.1 | 19.5 | 17.1 | 88% |
| Turnagain Pass | 1880 | 42.5 | 33.1 | 47.2 | 90% |

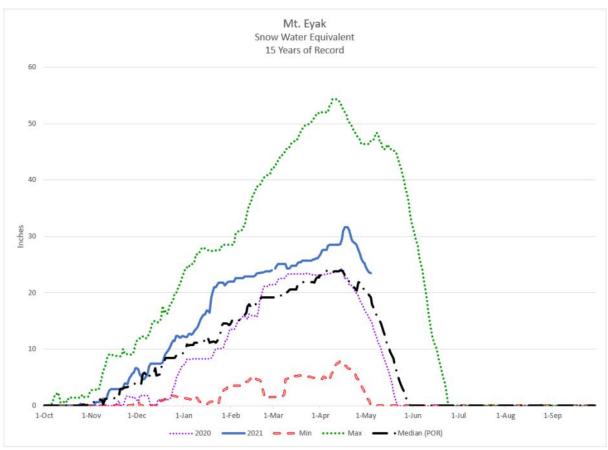
Streamflow Forecasts

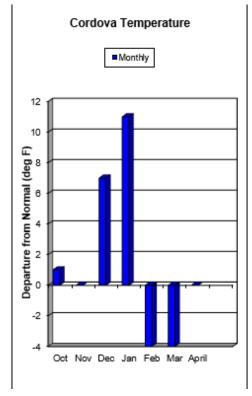
| Forecast Point | Forecast Period | % of Average | Maximum(%) | Minimum(%) | 50% Exceedance (KAF) | 30yr Average (KAF) |
|---------------------|--------------------|--------------|------------|------------|----------------------|--------------------|
| Bradley Lake Inflow | Apr-Jul | 92 | 109 | 75 | 175 | 191 |



Western Gulf - Prince William Sound







Snowpack

For a third month in a row, Prince William Sound received below average monthly precipitation. Snowpack in the eastern Sound is near to slightly below normal, while snow in western Sound is above normal. Mt. Eyak SNOTEL peak snowpack was slightly less than normal and melt out is a week ahead of average.

Western Gulf — Prince William Sound

Snowpack Data

| | | Snow Depth | | | Water Content | | |
|---------------------|-------|------------|-----------|---------------------|---------------|-----------|---------------------|
| Site Name | Elev. | Current | Last Year | 1981-2010 Normal | Current | Last Year | 1981-2010 Normal |
| Exit Glacier | 400 | 48 | 4 | 26 | 19.7 | 1.2 | 10.8 |
| Exit Glacier SNOTEL | 400 | 44 | 0 | | 16.4 | 0.0 | 11.0 |
| Grouse Creek Divide | 700 | 50 | 2 | | 22.8 | 0.1 | 16.0 |
| Lowe River | 600 | 29 | | 32 | 10.7 | | 11.8 |
| Mt. Eyak | 1405 | 65 | 40 | | 24.0 | 16.0 | 28.1 |
| Nicks Valley | 4280 | 97 | 130 | | | | |
| Sugarloaf Mountain | 550 | 62 | | 61 | 21.8 | | 23.9 |
| Tsaina River | 1650 | 35 | | 42 | 14.1 | | 14.0 |
| Upper Tsaina River | 1750 | 54 | 59 | | 22.2 | 24.7 | 19.2 |
| Valdez | 50 | 25 | | 28 | 8.7 | | 10.4 |
| Worthington Glacier | 2100 | 63 | | 63 | 25.5 | | 24.6 |
| | | | | | | | |

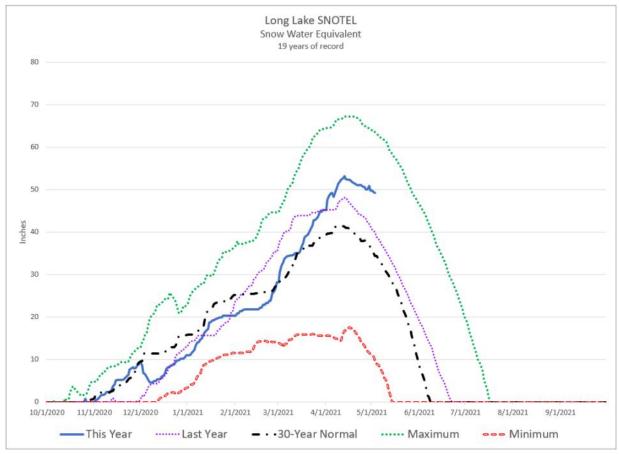
^{*}Estimate

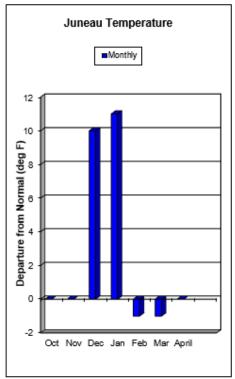
Precipitation

| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|---------------------|-------|-----------|-----------|------------------|-------------|
| Esther Island | 50 | 87.6 | 83.0 | 89.0 | 98% |
| Exit Glacier | 400 | 55.7 | 50.9 | | |
| Grouse Creek Divide | 700 | 42.7 | 35.4 | 41.9 | 102% |
| Mt. Eyak | 1405 | 67.2 | 82.4 | | |
| Nuchek | 50 | 82.0 | 89.6 | | |
| Port San Juan | 50 | | 77.5 | 85.4 | |
| Strawberry Reef | 30 | 39.9 | 46.0 | | |
| Sugarloaf Mtn | 550 | 41.6 | 53.4 | 44.4 | 94% |
| Tatitlek | 50 | 42.2 | 54.0 | 44.1 | 96% |

Southeast







Snowpack

Southeast Alaska received from near to above normal precipitation during April. Like last month, monthly precipitation totals ranged from near average at Ketchikan to twice normal further up in the panhandle. Snowpack in Southeast is much above normal with measured site ranging from 139% to over 205% of normal. Moore Creek Bridge continues to have record snowpack. With 31.6" of water content, it has over 4" more water content than 2004, the previous record. Towards the southern part of the panhandle, Tyee Pass near the Tyee Lake Hydro-project had an amazing 20' of snow depth, measured with 88.8" of water content.

Southeast

Snowpack Data

| | | Snow Depth | | | Water Content | | |
|----------------------|-------|------------|-----------|------------------|---------------|-----------|---------------------|
| Site Name | Elev. | Current | Last Year | 1981-2010 Median | Current | Last Year | 1981-2010 Median |
| Cropley Lake | 1650 | 103 | | 70 | 44.5 | | 29.6 |
| Eagle Crest | 1200 | 77 | | 34 | 25.9 | | 12.2 |
| Fish Creek | 500 | 0 | | 0 | 0.0 | | 0.0 |
| Heen Latinee | 2065 | 59 | 46 | | 24.2 | 20.5 | |
| Lake Grace Pass† | 1900 | 215 | | | 88.2 | | |
| Long Lake | 850 | 115 | 96 | | 92.8 | 40.7 | 35.8 |
| Mint Creek Ridge† | 1900 | 160 | | | 92.8 | | |
| Moore Creek Bridge | 2250 | 70 | | 51 | 31.6 | | 20.7 |
| Mount Ripinky Δ | 2540 | 194 | | | 93.0 | | |
| Mount Tyee† | 2790 | 188 | | | 76.1 | | |
| Petersburg Reservoir | 550 | 24 | | 0 | 9.1 | | 0.0 |
| Petersburg Ridge, S. | 1650 | 107 | | 52 | 45.9 | | 22.4 |
| Speel River | 280 | 76 | | 50 | 32.3* | | 22.0 |
| Tyee Pass† | 2820 | 240 | | | 88.8 | | |
| Upper Swan Lake† | 1700 | 98 | | | 38.8 | | |
| *Estimate | • | | | · | | | |

†Course measured 4/14/2021

Δ Course measured 4/16/2021

Precipitation Data

Inches Accumulated since October 1st (as of May 1, 2021)

| Site Name | Elev. | This Year | Last Year | 1981-2010 Normal | % of Normal |
|--------------------|-------|-----------|-----------|------------------|-------------|
| Heen Latinee | 2065 | 53.0 | 52.9 | | |
| Long Lake | 850 | 119.4 | 122.2 | 104.6 | 114% |
| Moore Creek Bridge | 2250 | 41.0 | 33.6 | 29.6 | 139% |

Streamflow Forecast

| Forecast Point | Forecast Period | % of Average | Maximum(%) | Minimum(%) | 50% Exceedance (KAF) | 30yr Average (KAF) |
|--------------------------|--------------------|--------------|------------|------------|----------------------|--------------------|
| Taiya River near Skagway | Apr-Jul | 123 | 142 | 103 | 565 | 459 |

For further information contact:

NRCS Alaska web site: www.nrcs.usda.gov/wps/portal/nrcs/main/ak/snow/NRCS Water and Climate Center web site: http://www.wcc.nrcs.usda.gov/

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